GEN1000

1000 Surge Watts / 900 Running Watts

2-CYCLE PORTABLE GENERATOR

INSTRUCTION MANUAL



READ ALL INSTRUCTIONS AND WARNINGS BEFORE USING THIS PRODUCT.

This manual provides important information on proper operation & maintenance. Every effort has been made to ensure the accuracy of this manual. These instructions are not meant to cover every possible condition and situation that may occur. We reserve the right to change this product at any time without prior notice.

IF THERE IS ANY QUESTION ABOUT A CONDITION BEING SAFE OR UNSAFE,

DO NOT OPERATE THIS PRODUCT!

Visit our website for Troubleshooting / Frequently Asked Questions
http://sportsmanseriesbrand.com/generators

DO NOT RETURN THIS GENERATOR TO THE RETAILER!

If you experience a problem, have questions or need parts for this product, call Customer Service at **1-866-460-9436, Monday-Friday, 8 AM - 4 PM Central Time**. A copy of the sales receipt is required.

FOR CONSUMER USE ONLY – NOT FOR PROFESSIONAL USE. KEEP THIS MANUAL, SALES RECEIPT & APPLICABLE WARRANTY FOR FUTURE REFERENCE.

GEN1000   1000 Surge Watts / 900 Running Watts Portable Generator



FEATURES:

- 2 Cycle
- Recoil Start
- 2.0 HP Gasoline Engine
- 1 - 120 Volt A/C Outlet
- 1.1 Gallon Fuel Tank
- Engine Run Time: 5 Hours @ 50% Load
- 1000 Surge Watts / 900 Running Watts
- Decibel Rating <95 db

THIS ENGINE MEETS U.S. EPA EMISSION STANDARDS UNDER 40 CFR 1054.625 .

The emission-related warranty is valid for two (2) years. Keep the purchase receipt and mail in the product registration card for proof of purchase.

NB Corp limits emission-related warranty repairs to authorized service centers for owners located within 100 miles of an authorized service center. For owners located more than 100 miles from an authorized service center, Buffalo Corp will, in its sole discretion, either pay for shipping costs to and from an authorized service center, provide for a service technician to come to the owner to make the warranty repair, or pay for the repair to be made at a local non-authorized service center. The provisions of this paragraph apply only for the contiguous states, excluding the states with high-altitude areas identified in 40 CFR part 1068, Appendix III.

To exercise this warranty, DO NOT RETURN TO RETAILER. Instead, call Customer Service toll free at 1-866-460-9436 (email address info@buffalotools.com) and you will be instructed on where to take the engine for warranty service. Take the generator and proof of purchase (your receipt) to the repair facility recommended by the Customer Service Representative. The warranty does not extend to generators damaged or affected by fuel contamination, accidents, neglect, misuse, unauthorized alterations, use in an application for which the product was not designed and any other modifications or abuse.

1 YEAR LIMITED WARRANTY

Generators are warranted to be free from defects in materials and workmanship for a period of 1 YEAR from date of original purchase. Buffalo Corp. is not liable for any indirect, incidental or consequential damages from the sale or use of this product. Any implied warranties are limited to 1 YEAR as stated, or as otherwise stated, in this written limited warranty. Some states do not allow the exclusion or limitation of incidental or consequential damages. Some states do not allow limitation on the length of an implied warranty. Buffalo Corp will repair or replace, at its discretion, any part that is proven to be defective in materials or workmanship under normal use during the 1 YEAR warranty period. Warranty repairs or replacements will be made without charge for parts or labor. Parts replaced during warranty repairs will be considered as part of the original product and will have the same warranty period as the original product. This warranty gives you specific legal rights, and you may have other rights that vary from state to state.

RECOGNIZE SAFETY SYMBOLS, WORDS AND LABELS

What You Need to Know About Safety Instructions

Warning and Important Safety Instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when operating or cleaning tools and equipment.

Always contact your dealer, distributor, service agent or manufacturer about problems or conditions you do not understand.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ DANGER — DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING — WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION — CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION — CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

Notice Regarding Emissions:
Engines certified to comply with California and U.S. EPA emission regulations for SORE (Small Off Road Equipment) are certified to operate on regular unleaded gasoline and may include the following emission control systems: Three-Way Catalyst (TWC) (if equipped), and Engine Modifications (EM).

Legal Requirements:
Federal and/or State Occupational Safety and Health Administration (OSHA) regulations, local codes, and/or ordinances may apply to the intended use of this generator. Consult a qualified electrician, electrical inspector, and/or the local agency having jurisdiction. Some areas require generators to be registered with local utility companies. Additional regulations may apply if this generator will be used at a construction site.

IMPORTANT SAFETY INSTRUCTIONS

STOP!

Before using this generator and if you have any questions regarding the hazard and safety notices listed in this manual and/or on this generator, call 1-866-460-9436, Monday - Friday, 8 AM - 4 PM Central Time.

⚠ DANGER

Carbon Monoxide Gas: When in operation, the exhaust from this generator contains poisonous carbon monoxide gas. Carbon monoxide gas is both odorless and colorless AND may be present even if you do not see or smell gas. Breathing this poison gas can lead to headaches, dizziness, drowsiness, loss of consciousness and eventually death.
• USE THIS GENERATOR ONLY OUTDOORS IN NON-CONFINED AREAS. DO NOT SECURE THE GENERATOR WITH A CHAIN OR ROPE, AS THIS WILL MAKE IT DIFFICULT TO MOVE IN AN EMERGENCY.
• Keep at least several feet of clearance on all sides to allow proper ventilation for this generator.

⚠ WARNING

Chemicals: According to the State of California, the exhaust from this generator contains chemicals known to cause cancer, birth defects, or other reproductive harm.

⚠ WARNING

Flammable Gasoline: This generator may emit highly flammable and explosive gasoline vapors, which can cause severe burns or even death. A nearby open flame can lead to an explosion even if not directly in contact with gasoline.
• Do not operate this generator near open flame.
• Do not smoke near this generator.
• Always operate this generator on a firm, level surface.
Gasoline is highly flammable and explosive. Handling fuel can result in serious injury or burns.
• Always shut down this generator before refueling. Refuel in a well-ventilated area. Keep heat, sparks and flame away while refueling and away from the location where gasoline is stored. Never refuel indoors where gasoline fumes may reach flames and/or sparks.
• Allow this generator to cool for at least 2 minutes before removing the fuel tank cap. Loosen the cap slowly to relieve pressure in the fuel tank. Avoid spilling fuel.
• Do not fill the fuel tank above the upper limit line. Gasoline may expand during operation. Do not fill to the top of the tank.
• Always check for spilled gasoline and immediately wipe it up before starting this generator.
• Empty the fuel tank before storing or transporting this generator.
• Always handle fuel outdoors.
• Before transporting, turn the fuel valve to the “OFF” position and disconnect the spark plug.

⚠ DANGER

Powerful Voltage: **This generator produces powerful voltage, which can result in electrocution.**
• ALWAYS ground this generator before using it. (See "Ground the Generator" section in this manual).
• Only electrical devices should be plugged into this generator, either directly or with an extension cord. NEVER connect a building electrical system to this generator without a qualified electrician. *Doing so voids your warranty*. Such connections must isolate generator power from utility power and comply with local electrical laws and codes. Failure to comply can create a back feed into utility lines creating an electrocution hazard, which may result in serious injury or death to utility workers. Such a back feed may cause this generator to explode, burn and create fires when utility power is restored.
• Use a ground fault circuit interrupter (GFCI) in highly conductive areas such as metal decking or steel work. GFCIs are available in-line with some extension cords.
• Do not use this generator in wet conditions (rain, snow, active sprinkler system, wet hands, etc.). Always keep this generator dry and operate it with dry hands.
• Do not touch bare wires or outlets (receptacles).
• Do not allow children or non-qualified persons to operate this generator.

⚠ DANGER

High Temperatures: **This generator produces heat when in operation. Temperatures near the exhaust can exceed 150 Degrees Fahrenheit (65 Degrees Celsius).**
• Do not touch hot surfaces. Observe all warning placards on this generator denoting hot surfaces.
• Allow this generator to cool for several minutes after use before touching the engine, muffler or other areas that are hot during operation and before storing indoors.
• Hot exhaust may ignite some materials. Keep flammable materials away from this generator.
• Keep at least several feet of clearance on all sides of this generator during operation. Do not enclose this generator in any structure.

⚠ CAUTION

Usage: **Misuse of this generator can damage it or shorten its life.**
• Use this generator only for its intended purpose.
• Operate this generator only on a dry, level surface. Do not secure the generator with a chain or rope, which would prevent it from being moved in an emergency.
• Allow this generator to run for several minutes before connecting any electrical devices.
• Promptly turn off any malfunctioning devices and disconnect them.
• Do not operate an excessive number of electrical devices in excess of the wattage capacity of this generator.
• Do not turn on electrical devices until *after* they are connected to this generator.
• Turn off all connected electrical devices before stopping this generator.

⚠ WARNING

Usage: **Consult a physician(s) before using this generator if using a pacemaker.** Electromagnetic fields in close proximity to a heart pacemaker could cause a pacemaker to malfunction or fail. Caution is necessary when near the engine's recoil starter.

⚠ CAUTION

Usage: **Prolonged exposure to high noise levels can be hazardous to hearing.** Always wear ANSI-approved hearing protection when operating or working around the generator when it is running.

CAUTION

Usage: **This generator is not intended to power sensitive electronic equipment such as TVs, DVD players, stereos, desktop computers or laptop computers without the use of an appropriate line conditioner and/or surge protector (both not included).** Sensitive electronic equipment should be operated on approved inverter type generators or pure sine wave generators. For additional information consult the devices operation manual or call customer service at 1-866-460-9436 Monday - Friday, 8 AM - 4 PM Central Time.

⚠ WARNING

Usage: **Avoid the use of extension cords if possible.** If you choose to use them, be sure they are sized adequately to handle the flow of electricity. An undersized cord can overheat, short out and cause a fire.

⚠ CAUTION

Usage: **Do not use fuel stabilizers with this generator**, doing so could cause damage to the generator, or decrease the fuel and operating efficiency of the generator. You may choose to add a fuel conditioner to oxygenate the fuel and to help it run more efficiently.

⚠ WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

⚠ DANGER

EXHAUST CONTAINS POISONOUS CARBON MONOXIDE GAS THAT CAN BUILD UP TO DANGEROUS LEVELS IN CLOSED AREAS. BREATHING CARBON MONOXIDE CAN CAUSE UNCONSCIOUSNESS OR DEATH. Never run the generator in a closed or even partly closed area where people may be present.

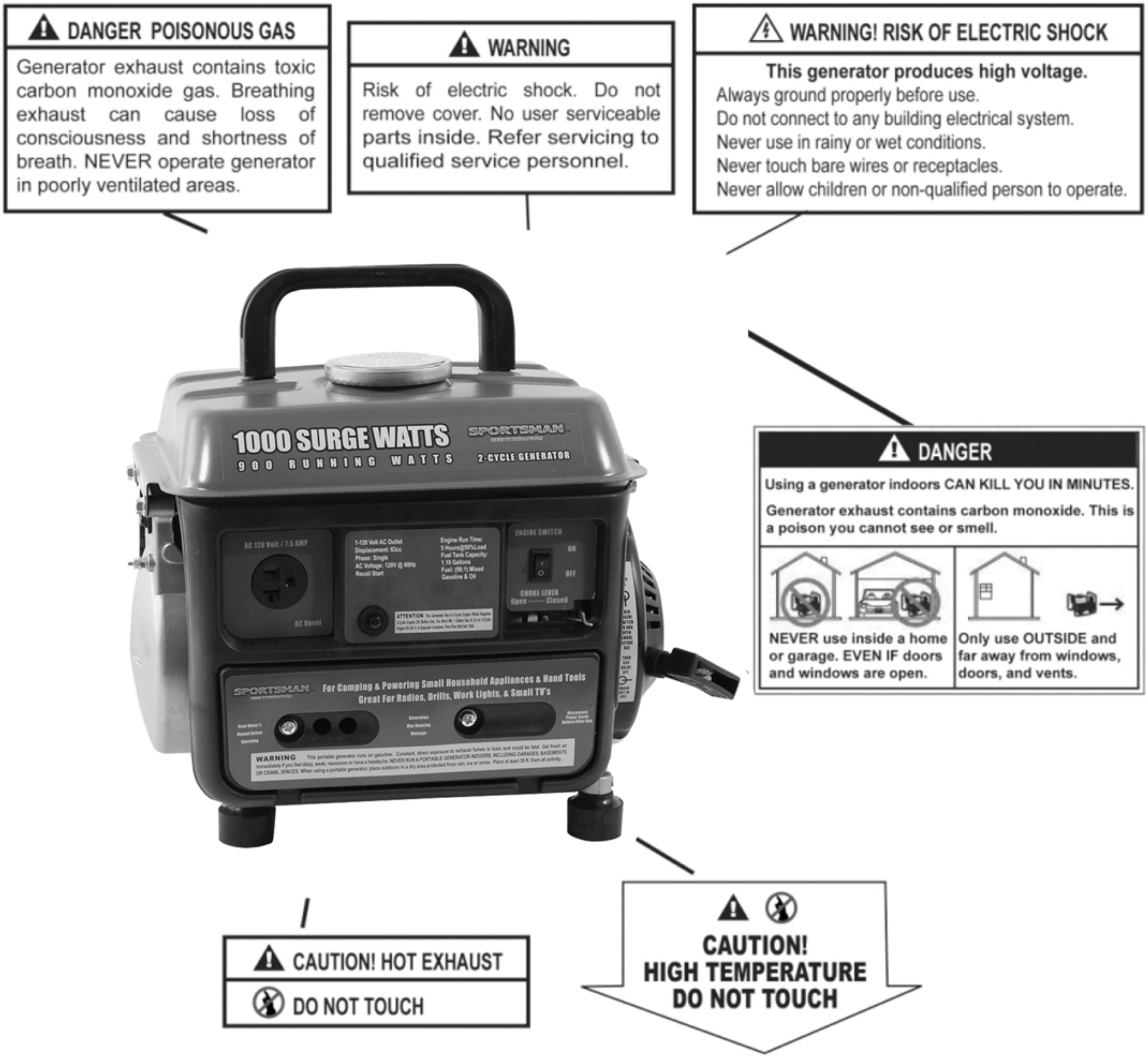
⚠ WARNING

GASOLINE IS HIGHLY FLAMMABLE AND EXPLOSIVE. YOU COULD BE BURNED OR SERIOUSLY INJURED IF THE GASOLINE IS IGNITED. Before refueling, stop the engine and keep heat, sparks and flame away. Handle fuel only outdoors. Do not fill the fuel tank above the upper limit line. Wipe up spills immediately.

⚠ WARNING

IMPROPER CONNECTIONS TO A BUILDING CAN ALLOW ELECTRICAL CURRENT TO BACKFEED INTO UTILITY LINES, CREATING AN ELECTROCUTION HAZARD. Connections to a building must isolate generator power from utility power and comply with all applicable laws and electrical codes.

In addition to the previously described safety information, familiarize yourself with all safety and hazard placards on this generator.



PACKAGE CONTENTS

The following items are supplied with this Portable Generator. Verify that all items are included.

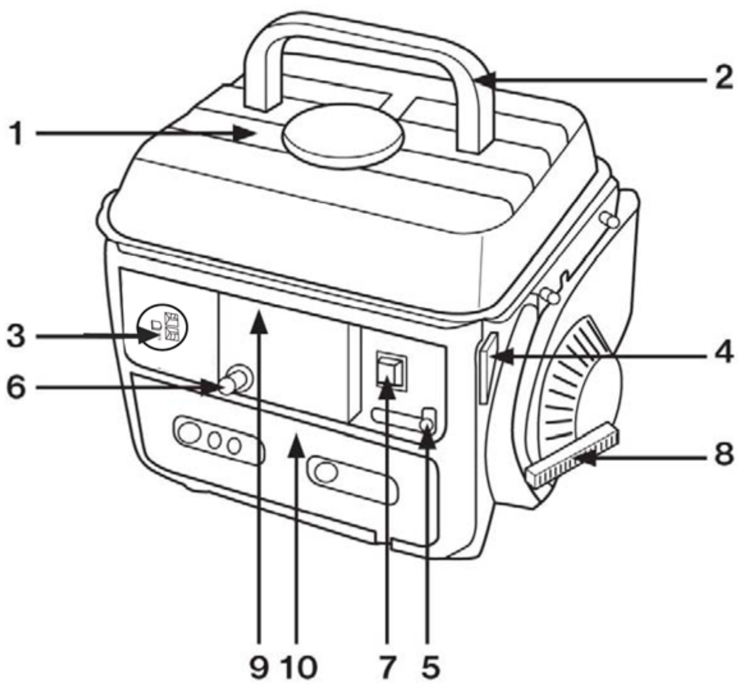
STOP!

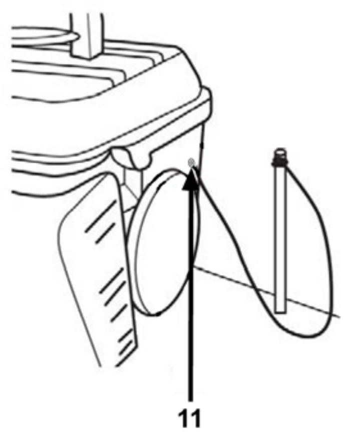
If there are missing items, call 1-866-460-9436, Monday - Friday, 8 AM - 4 PM Central Time for customer service. DO NOT RETURN THIS GENERATOR TO THE RETAILER.

	Spark plug wrench

GENERATOR COMPONENTS

Observe the locations and functions of the various components and controls of this generator.





1) Fuel Tank With Cap
2) Carry Handle
3) Power Outlet
4) Fuel Switch
5) Choke Lever
6) Restart
7) On/Off Switch
8) Hand Start
9) Control Panel
10) Air Filter Cover
11) Grounding Terminal

Using this Generator for the First-Time

STOP!

CAUTION

The following section describes the required steps for preparing this generator for the first use. Failure to correctly perform these steps can damage this generator and/or shorten its life. If still unsure about how to perform any of these steps after reading this section, call 1-866-460-9436 Monday - Friday, 8 AM - 4 PM Central Time for customer service.

If this generator is being used for the first time, the following few steps are required to prepare it for operation:

Step 1 - Add Oil/Gas Mixture Before Use, Mix 1 Gallon Gas With 2.6 oz. 2-Cycle Engine Oil (50:1) In Separate Container, Then Pour In Gas Tank.

This generator is equipped with a two-stroke engine and is therefore powered by a fuel mixture. Use only a mix of unleaded gasoline and two-stroke oil in a ratio of 50:1. The generator is delivered without fuel mixture and must be filled prior to start-up operation. Attention! Always add fuel mixture when the generator is switched off. Please ensure that the fuel switch is in the “OFF“ position. Open the tank cover and fill it with max. 1 gallon of fuel mixture while ensuring that the fuel filter is inserted. Do not overfill the tank. Please note that fuel can expand with warm temperatures. Close the tank lid carefully. Attention! Do not smoke, keep fire and open flame away while filling the fuel tank!

⚠ WARNING

Gasoline and gasoline fumes are highly flammable and explosive. Handling fuel can result in serious injury or burns.

- Do not fill the fuel tank near heat, sparks or an open flame. Keep gasoline away from pilot lights, barbecues, electric appliances, power tools, etc.
- Always allow several minutes for the engine to cool before refueling.
- Do not overfill the fuel tank. Check for fuel spills and immediately wipe them up. Spilled fuel is a fire hazard and causes environmental damage.

Step 2 - Ground the Generator

Figure 3
The Grounding Terminal is located on the side of the generator.



⚠ WARNING
Failure to properly ground this generator can result in electrocution.

Ground this generator by tightening the grounding nut against a grounding wire as illustrated in Figure 3. A No. 12 AWG (American Wire Gauge) stranded copper wire is generally an acceptable grounding wire. The other end of this grounding wire should be connected to a copper or brass grounding rod that is driven into the earth.

Grounding codes can vary by location. Contact a local electrician for information on grounding regulations for your area.

IMPORTANT:
• Use only fresh UNLEADED gasoline with an octane rating of 87 or higher.
• Never use old and/or contaminated gasoline.
• Only use a mixture of oil and gasoline with rate of 1:50.
• Avoid getting dirt and/or water in the fuel tank.
• Never store generator for extended time with gasoline in the fuel tank.

STARTING THE GENERATOR

STOP!

Before starting this generator, confirm that all the steps in the section titled, "Preparing the Generator for Use," of this manual have been correctly completed. If unsure about how to perform any of these steps, call 1-866-460-9436, Monday - Friday, 8 AM - 4 PM Central Time.

⚠ CAUTION
Disconnect all electrical loads from this generator before attempting to start.

To start this generator:
1. Confirm that there are no electrical devices connected to this generator. Connected devices may increase the difficulty in starting the engine.
2. Confirm that this generator is properly grounded. (See "Ground the Generator" section of this manual.)
3. Turn the fuel valve to the "on" position.
4. Move the choke lever to the "closed" position.
5. Set the engine switch to the "on" position.
6. Slowly pull on the recoil starter handle, shown in Figure 4, until a slight resistance is felt. Then pull briskly to start the engine. Gently return the cord into the generator to avoid damage to the starter or housing. Never allow the cord to snap back.
7. If the engine fails to start, repeat step 6. NOTE: After repeated attempts to start the engine, consult the troubleshooting guide before attempting again. If problems persist, call 1-866-460-9436, Monday - Friday, 8 AM - 4 PM Central Time.
8. Once the engine has started and runs for about a minute, move the choke lever approximately half way towards the "open" position. Wait an additional 30 seconds and then move the choke lever completely over to the "open" position.
9. Allow this generator to run for several minutes before connecting any electrical devices.

Fuel Cock
The fuel cock is located between the fuel tank and carburetor. When the fuel cock is in the ON position, fuel is allowed to flow from the fuel tank to the carburetor. Be sure to return the fuel cock to the OFF position after stopping the engine.

Choke Rod
The choke is used to provide an enriched fuel mixture when starting a cold engine. It can be opened and closed by operating the choke rod manually. Pull the rod out toward CLOSED to enrich the mixture for cold starting

USING THE GENERATOR

⚠ WARNING

- USE THIS GENERATOR ONLY OUTDOORS IN NON-CONFINED AREAS. DO NOT SECURE THE GENERATOR WITH A CHAIN OR ROPE, AS THIS WILL MAKE IT DIFFICULT TO MOVE IN AN EMERGENCY.
- Keep at least several feet of clearance on all sides to allow proper ventilation for this generator.

After the engine has been running for several minutes, electrical devices may be connected to this generator.

AC Usage

Electrical devices running on AC current may be connected according to their wattage requirements. The rated (running) and surge wattage for this Model GEN1000 1000 Surge Watts / 900 Running Watts Portable Generator is 900 and 1,000 respectively.

Model GEN1000 Rated (Running) Wattage	1000
Model GEN1000 Surge Wattage	900

The *rated (running) wattage* corresponds to the maximum wattage a generator can output on a continuous basis.

The *surge wattage* corresponds to the maximum amount of power a generator can output for a short time. Many electrical devices, such as a refrigerator, require short bursts of extra power for starting and stopping fan motors, etc., in addition to their listed rated wattage. Motorized devices typically require more than their rated wattage for startup. The surge wattage ability of a generator allows for this extra power requirement.

The total running wattage requirement of the electrical devices connected to a generator should not exceed the rated wattage of the generator itself. To calculate the total wattage requirement of the electrical devices to be connected, look up the rated (running) wattage of each device and add these numbers together to find the total wattage that all of the devices together will draw from the generator. If the total wattage of the selected devices exceeds the rated wattage of the generator, DO NOT connect all of the devices. Select a combination of the electrical devices that will have a total wattage less than or equal to the rated wattage for the generator.

⚠ CAUTION

This generator can run at its surge wattage capacity for only a short time. Connect electrical devices requiring a rated (running) wattage equal to or less than the rated wattage of this generator. Never connect devices requiring a rated wattage equal to the surge wattage of a generator.

A device's rated (running) wattage should be listed somewhere on the device itself and/or in its manual. If the wattage specification for a device is not available, the wattage can be calculated by multiplying the Voltage requirement (120 or 240) by the Amperage drawn. Watts = Volts x Amperes

Or, the wattage required by a device can be estimated by using the following chart. The chart provides only estimates and it is better to know the exact wattage of each electrical device to be powered by this generator.

Electrical Device	Rated (Running) Watts	Additional Surge Watts
air compressor (1 - 1/2 HP)	2500	2500
airless sprayer (1/3 HP)	600	1200
coffee maker	1500	0
computer w/17 inch monitor	800	0
deep freezer	500	500
electric drill (1/2 HP)	1000	1000
furnace fan blower (1/2 HP)	800	1300
hot plate	2500	0
microwave oven (1000 watt)	1000	0
quartz halogen work light	1000	0
refrigerator/freezer (18 Cu. Ft.)	800	1600
saw - circular (7 1/4 inch)	1500	1500
stereo receiver	450	0
electric stove - single element	1500	0
sump pump	800	1200
television (27 inch color)	500	0
well water pump (1/3 HP)	1000	2000
window air conditioner (10000 BTU)	1200	1800
window fan	300	600

Connect electrical devices to this generator according to the following procedure:

Allow the engine to run for several minutes after it has been started.

Confirm that the electrical device is switched off prior to plugging it into this generator.

⚠ CAUTION

Connect only electrical devices that are in good working order. Faulty devices or power cords present the risk of electrical shock. Immediately turn off and disconnect any device that commences to operate abnormally, sluggish or abruptly stops. Determine if the problem was the device or the rated load capacity of this generator has been exceeded.

NOTE: Plug appliances into the correct outlet. Connect standard 120 Volt, single phase, 60 Hz loads to the 120 Volt outlet. Connect 12 Volt, DC loads to the 12 Volt outlet.

NOTE: While this generator is running, power is available from either the standard 120 Volt outlet or the 12 Volt DC outlet. Both 120 Volts and 12 Volts can be simultaneously drawn from this generator.

Turn on the connected electrical devices beginning with the device with the highest rated wattage requirement and then each additional device with the next lower rated wattage requirement.

SOME NOTES ABOUT POWER CORDS

Long or thin cords can require more wattage from a generator to power an electrical device. Figure 6 shows the recommended cords according to the power requirement of the electrical device. When using cords that exceed these specifications, allow for the electrical device to have a slightly higher rated wattage requirement.

Figure 6 - Maximum Extension Cord Lengths by Power Requirement

Device Requirements			Max. Cord Length (ft) by Wire Gauge				
Amps	Watts (120V)	Watts (240V)	#8 wire	#10 wire	#12 wire	#14 wire	#16 wire
2.5	300	600	NR	1000	600	375	250
5	600	1200	NR	500	300	200	125
7.5	900	1800	NR	350	200	125	100
10	1200	2400	NR	250	150	100	50
15	1800	3600	NR	150	100	65	NR
20	2400	4800	175	125	75	50	NR
25	3000	6000	150	100	60	NR	NR
30	3600	7200	125	65	NR	NR	NR
40	4800	9600	90	NR	NR	NR	NR

NR = Not Recommended.

STOPPING THE GENERATOR

To stop this generator:

1. Turn off all connected electrical devices and then unplug them.
2. Allow this generator to run for several more minutes with no electrical devices connected to help stabilize the temperature of this generator.
3. Set the engine switch to the “OFF” position.
4. Turn the fuel valve to the “OFF” position.

⚠ WARNING

Allow this generator to cool down before touching areas that become hot during operation.

⚠ CAUTION

Allowing gasoline to sit in this generator's fuel tank for extended time without use can increase the difficulty in starting this generator in the future. Never store this generator for extended time with gasoline in the fuel tank.

MAINTENANCE/CARE

Proper routine maintenance of this generator is essential for safe, economical, and trouble-free operation. It will help prolong the life of this generator as well as help reduce air pollution. Perform maintenance checks and procedures according to the schedule in Figure 7.

⚠ CAUTION

Never perform maintenance procedures while this generator is running. Allow this generator to cool before commencing any maintenance procedures. Keep heat, sparks and flame away.

⚠ WARNING

Improper maintenance and/or failure to correct any problems prior to operating this generator can cause a malfunction which could cause death or serious injury. Always follow the inspection and maintenance recommendations and schedules in this manual.

Recommended Maintenance Schedule

		Each Use	Every Month or Each 20 Hrs	Every 3 Months or Each 50 Hrs	Every 6 Months or Each 100 Hrs	Every Year or Each 300 Hrs
Air Filter	Check	X				
	Clean			X		
Fuel Filler Cap	Clean				X	
Spark Plug	Check/Clean				X	
Fuel Tank	Verify Gas Level	X				
	Clean					X

Figure 7 - Recommended maintenance schedule

Cleaning the Generator

Always try to use this generator in a cool dry place. If this generator becomes dirty, the exterior can be cleaned with a damp cloth, soft brush, vacuum and/or pressurized air. Never clean this generator with a bucket of water and/or a hose as water can get inside and cause a short circuit or corrosion. Never use gasoline to clean parts of this generator.

Spark Plug Maintenance

The spark plug is essential for proper engine operation. The spark plug should be intact, free of deposits, and properly gapped. A bad or incorrectly installed spark plug can cause engine damage.

To inspect the spark plug:

1. Remove the spark plug by pulling on the spark plug cap.
2. Unscrew the spark plug from this generator by using the included spark plug wrench.
3. Inspect the spark plug. If it is cracked and/or chipped, install a new spark plug. A F5TC spark plug, such as NGK BP5ES, is recommended.

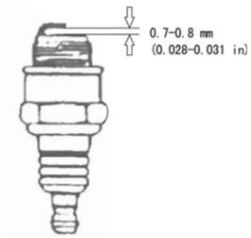
4. Measure the spark plug electrode gap with a gauge. The gap should be 0.028-0.031in (0.7-0.8mm). (See Figure 9.)

5. If re-using the spark plug, use a wire brush to clean any dirt from around the spark plug base and then re-gap the spark plug.

6. Screw the spark plug back into place on this generator by using the included spark plug wrench.

7. Replace the spark plug cap.

Figure 9 - Measuring the spark plug gap



Cleaning the Air Filter

Routine maintenance of the air filter helps maintain proper airflow to the carburetor. Occasionally verify that the air filter is free of excessive dirt. The air filter will require more frequent cleaning when operating this generator in extremely dusty areas.

To clean the air filter, remove the foam filter element from the generator and wash it in warm water and household dish detergent. Thoroughly rinse and dry. Pour a small amount of motor oil onto the filter, ring out ALL excess oil, and reinstall the foam filter element in the generator.

To locate the air filter, unscrew the two bolts attaching the bottom air filter cover, located below the choke lever, to access the foam filter element.

Emptying the Carburetor

To store this generator for extended time, the fuel needs to be drained from the carburetor.

To drain the gasoline from the carburetor turn the fuel valve to the "off" position while the engine is running. The generator will shut down when all the gasoline in the carburetor has been used.

⚠ CAUTION

Do not store gasoline for more than 3 months.

STORAGE/TRANSPORT PROCEDURES

⚠ CAUTION

Never place any type of storage cover on this generator while it is still hot.

When transporting or storing this generator for extended time:
• Allow generator to fully cool before moving it. A hot engine and exhaust system can burn you and ignite some materials.
• Empty the fuel tank. (See "Emptying the Fuel Tank" in the "Maintenance/Care" section.)
• Turn the fuel valve to the "off" position.
• Disconnect the spark plug.
• Do not obstruct any ventilation openings.
• Do not drop or strike this generator while moving it.
• Store this generator in a cool dry area, free of excessive dust.

Storage Time	Recommended Storage Procedure (which will help prevent difficult starts)
Less than 1 month	No storage procedure required.
1 to 2 months	Fill with fresh gasoline and add gasoline conditioner
2 months to 1 year	Empty the fuel tank. (See "Emptying the Fuel Tank" in the "Maintenance/Care" section.)
1 year or more	Empty the fuel tank. (See "Emptying the Fuel Tank" in the "Maintenance/Care" section.) Disconnect the spark plug.

TROUBLESHOOTING

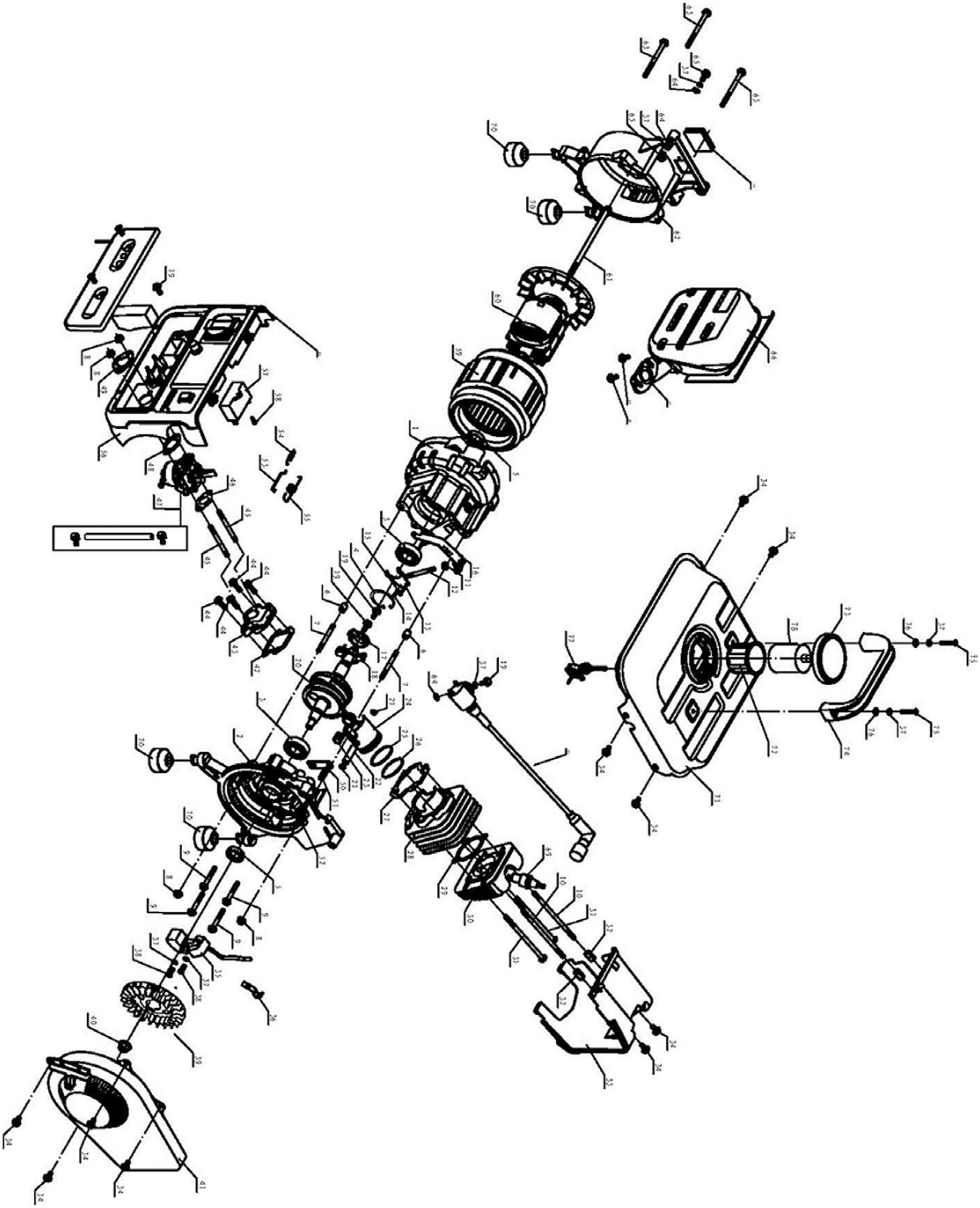
IMPORTANT: If trouble persists, call our customer help line at 1-866-460-9436, Monday - Friday, 8 AM - 4 PM Central Time.

Symptom	Cause	Solution
Engine will not start.	Engine switch is set to "off."	Set engine switch to "on."
	Fuel valve is turned to "closed."	Turn fuel valve to "open."
	Choke is open.	Close the choke.
	Engine is out of gasoline/ oil mix	Add gasoline/oil mix
	Engine is filled with contaminated and/or old fuel.	Drain fuel from the engine and add new gasoline.
	Spark plug is dirty.	Clean spark plug.
	Spark plug is broken.	Replace spark plug.
	Generator is not on level surface.	Move generator to a level surface to prevent triggering the low oil shutdown.
	Oil is low.	Add or replace oil.
Engine runs but there is no electrical output.	Circuit breaker is off.	Flip circuit breaker to "on."
	Reset button is "off."	Push reset button to "on."
	Bad connecting wires/cables.	Try a different extension cord.
	Bad electrical device connected to generator.	Disconnect device, try connecting another device.
Generator runs but does not support all connected electrical devices.	Generator is overloaded.	Reduce draw on generator to within this generator's rated wattage by reducing number of connected electrical devices.
	Short in one of the connected devices.	Disconnect any faulty or short-circuited electrical loads.
	Air filter is dirty.	Clean or replace air filter.

⚠ DANGER

Do not secure the generator with a chain or rope, which would prevent it from being moved in an emergency.

GEN1000 PARTS DIAGRAM



GEN1000 PARTS LIST

NO.	CODE	DESCRIPTION	QTY.
1	02201000020004	left crankcase	1
2	02201000010004	right crankcase	1
3	521010010201	bearing 6004	2
4	518014200001	hole circlip ϕ42	1
5	522010100301	oil seal 20*30*7	2
6	514011001400	pin 10*7*14	2
7	516030605005	stub AM6*50	2
8	512040600001	dentiform flange nut M6	4
9	511050604501	flange bolt M6*45	4
10	516030610005	stub AM6*100	2
11	522010100101	oil seal 6*12*7	1
12	022010000300	governor shaft	1
13	022010000400	governor fork	1
14	515010300802	cross round head bolt M3*8	2
15	513020300002	spring washer ϕ3	2
16	022010000500	governor arm	1
17	022010000600	collar bush	1
18	022010100000	weight comp	1
19	511130601601	flange bolt M6*16	4
20	022010200000	crankshaft assembly	1
21	022010000700	circlip	2
22	022010000800	piston pin	1
23	022010004800	roller bearing 14*10*13	1
24	02201000090104	piston	1
25	02201000100004	second piston ring	1
26	02201000110004	first piston ring	1
27	022010001200	cylinder gasket	1
28	022010001300	cylinder	1
29	022010001400	cylinder cap gasket	1
30	022010001500	cylinder cap	1
31	511050610501	flange bolt M6*105	2
32	512060601801	thick nut M6*18	2
33	022010001600	the cover of cylinder cap	1
34	511050601201	flange bolt M6*12	10
35	02201000170004	ignition coil assembly	1
36	022010001800	clamp	1
37	513020600002	spring washer ϕ6	7
38	515010601603	cross round head bolt M6*16	2
39	02201030000404	flywheel	1
40	512101000000	flange nut M10*1.25	1
41	02201040001304	recoil starter assembly	1
42	022010001900	intake valve gasket	1
43	02201050000004	intake vavle assembly	1
44	511050601801	flange bolt M6*18	4
45	516030606003	stub AM6*60	2
46	022010002000	intake gasket	1
47	02201060000104	carburetor	1
48	022010002100	carbureor gasket B	1
49	022010002200	carbureor gasket A	1
50	022010002300	supporting plate	1
51	022010002400	compression spring	1

52	515060604002	cross round head bolt M6*40	1
53	022010002500	rod link	1
54	022010002600	tension spring	1
55	022010002700	governor spring	1
56	02501070000404	controll pannel	1
57	029030800104	capacitance	1
58	517050401400	self-tapping screw ST4.2*14	1
59	061012130008	alternator stator	1
60	061012120001	alternator rotor	1
61	511010815601	flange bolt M8*156	1
62	029030400101	rear cover	1
63	511050608001	flange bolt M6*80	3
64	513030600000	dentiform washer ϕ6	3
65	511050601001	flange bolt M6*10	2
66	022010800018	muffler	1
67	022010003000	muffler gasket	1
68	02201000310004	CDI winding	1
69	02201000330005	spark plug	1
70	022010003400	absorber	4
71	022010003579	fuel tank	1
72	029019900602	fuel filter	1
73	029019901101	fuel tank cap	1
74	022010003801	handlebar	1
75	515060603002	cross round head bolt M6*30	2
76	513010600001	washer ϕ6	2
77	029019900703	fuel switch	1
78	022010004100	fuel cup	1
79	022010004000	Rubber jams	1

2014-08